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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/587,930	08/02/2006	Maeiwa Tetsuji	2946-203	5702		
	7590 12/24/200 FIGG, ERNST & MAN	EXAMINER				
1425 K STREE SUITE 800		BITAR, NANCY				
WASHINGTO	N, DC 20005	ART UNIT	PAPER NUMBER			
			2624			
		NOTIFICATION DATE	DELIVERY MODE			
		12/24/2008	ELECTRONIC			

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTO-PAT-Email@rfem.com

Office Action Summary		A	pplication No.	Applicant(s)					
		1	0/587,930		TETSUJI, MAEIWA				
		E	xaminer		Art Unit				
		N/	ANCY BITAR		2624				
<i>TI</i> Period for Re	ne MAILING DATE of this commun eply	nication appear	s on the cover	sheet with the c	orrespondence ac	ldress			
WHICHE - Extensions after SIX ( - If NO peric - Failure to I Any reply I	FENED STATUTORY PERIOD F VER IS LONGER, FROM THE N s of time may be available under the provisions 6) MONTHS from the mailing date of this com- d for reply is specified above, the maximum st reply within the set or extended period for reply received by the Office later than three months tent term adjustment. See 37 CFR 1.704(b).	MAILING DATE s of 37 CFR 1.136(a) munication. catutory period will ap will, by statute, caus	E OF THIS CC  ). In no event, howe  pply and will expire set the application to	MMUNICATION over, may a reply be time SIX (6) MONTHS from become ABANDONEI	I. lely filed the mailing date of this coorsists U.S.C. § 133).				
Status									
1)⊠ Re	sponsive to communication(s) file	ed on 08/02/20	006						
· —	Responsive to communication(s) filed on <u>08/02/2006</u> .  This action is <b>FINAL</b> . 2b)⊠ This action is non-final.								
′=		<del>,</del>			secution as to the	e merits is			
, —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition (	of Claims	·	•						
-		nnlication							
	Claim(s) <u>1-9</u> is/are pending in the application.								
	4a) Of the above claim(s) is/are withdrawn from consideration.								
·	5) Claim(s) is/are allowed. 6) Claim(s) <u>1-9</u> is/are rejected.								
·	im(s) <u>r o</u> is/are rejected: im(s) is/are objected to.								
•	im(s) are subject to restric	ction and/or ele	ection require	ment					
		otion ana, or or	oolion roquiroi	nont.					
Application	-								
•	specification is objected to by the								
10) <b>⊠</b> The	drawing(s) filed on 02 August 20	<u>)06</u> is/are:  a)[	accepted o	r b)⊡ objected t	o by the Examine	er.			
App	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) <u></u> The	11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority unde	er 35 U.S.C. § 119								
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>									
2) Notice of I	References Cited (PTO-892) Draftsperson's Patent Drawing Review (F n Disclosure Statement(s) (PTO/SB/08) s)/Mail Date <u>8/2/2006</u> .	PTO-948)	5)	Interview Summary Paper No(s)/Mail Da Notice of Informal Pa Other:	te				

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### **DETAILED ACTION**

## Claim Rejections - 35 USC § 101

1. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim(s) 1-4 are rejected under 35 U.S.C. 101 as not falling within one of the four statutory categories of invention. While the claims recite a series of steps or acts to be performed, a statutory "process" under 35 U.S.C. 101 must (1) be tied to another statutory category (such as a particular apparatus), or (2) transform underlying subject matter (such as an article or material) to a different state or thing (Reference the May 15, 2008 memorandum issued by Deputy Commissioner for Patent Examining Policy, John J. Love, titled "Clarification of 'Processes' under 35 U.S.C. 101"). The instant claims neither transform underlying subject matter nor positively tie to another statutory category that accomplishes the claimed method steps, and therefore do not qualify as a statutory process.

NOTE: Regarding the rejection of claims 1-8, please see the Memorandum dated May 15, 2008, "Clarification of Processes under 35 USC § 101" which may be viewed at the following web address:

http://www.uspto.gov/web/offices/pac/dapp/opla/preognotice/section101 05 15 2008.pdf

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35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

The USPTO "Interim Guidelines for Examination of Patent Applications for Patent Subject Matter Eligibility" (Official Gazette notice of 22 November 2005), Annex IV, reads as follows:

Descriptive material can be characterized as either "functional descriptive material" or "nonfunctional descriptive material." In this context, "functional descriptive material" consists of data structures and computer programs which impart functionality when employed as a computer component. (The definition of "data structure" is "a physical or logical relationship among data elements, designed to support specific data manipulation functions." The New IEEE Standard Dictionary of Electrical and Electronics Terms 308 (5th ed. 1993).) "Nonfunctional descriptive material" includes but is not limited to music, literary works and a compilation or mere arrangement of data.

When functional descriptive material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized. Compare In re Lowry, 32 F.3d 1579, 1583-84, 32 USPQ2d 1031, 1035 (Fed. Cir. 1994) (claim to data structure stored on a computer readable medium that increases computer efficiency held statutory) and Warmerdam, 33 F.3d at 1360-61, 31 USPQ2d at 1759 (claim to computer having a specific data structure stored in memory held statutory product-by-process claim) with Warmerdam, 33 F.3d at 1361, 31 USPQ2d at 1760 (claim to a data structure per se held nonstatutory).

In contrast, a claimed computer-readable medium encoded with a computer program is a computer element which defines structural and functional interrelationships between the computer program and the rest of the computer which permit the computer program's functionality to be realized, and is thus statutory. See Lowry, 32 F.3d at 1583-84, 32 USPQ2d at 1035.

2. Claim(s) **8-9** are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter as follows. Claim **8** defines a "**image creation program**' embodying functional descriptive material. However, the claim does not define a computer-

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readable medium or memory and is thus non-statutory for that reason (i.e., "When functional descriptive material is recorded on some computer-readable medium it becomes structurally and functionally interrelated to the medium and will be statutory in most cases since use of technology permits the function of the descriptive material to be realized" – Guidelines Annex IV). That is, the scope of the presently claimed "image creation program" can range from paper on which the program is written, to a program simply contemplated and memorized by a person. The examiner suggests amending the claim to embody the program on "computer-readable medium" or equivalent in order to make the claim statutory. Any amendment to the claim should be commensurate with its corresponding disclosure.

## Information Disclosure Statement

3. The information disclosure statement filed 8/02/2006 fails to comply with 37 CFR 1.98(a)(2), which requires a legible copy of each cited foreign patent document ( JP 60-002238; JP 09-179977); each non-patent literature publication or that portion which caused it to be listed; and all other information or that portion which caused it to be listed. It has been placed in the application file, but the information referred to therein has not been considered.

### Allowable Subject Matter

- 4. Note: Examiner did not find any relevant prior art to reject claims 1-4, 8-9 but there is a rejection under 35USC 101 for these claims
- 5. Claims 5-7 are allowed.

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The following is examiners statement for reason for allowance: claim 5 is allowed over the prior art Nippon et al (US 2003/0085907) and JP 2004-046776; because the Examiner found neither prior art cited in the entirety nor based on the prior art, found any motivation to combine any of said prior art which teaches a yarn image creation device for creating a color image of yarn having translucent fluff comprising:

capturing means for optically capturing at least twice color input images A, C of the yarn using different background images (G1, G2);

storage means for storing the captured color input images; means for solving X and D in the system of equations

A=GI+(X-G1)D

C=G2+(X-G2)D wherein X is a color image of the yarn itself and D is a yarn opacity image means for changing the value of D to 0 for pixels in which the value of D is not greater than a first predetermined value, and to I for pixels in which the value of D is not smaller than a second predetermined value, the yarn opacity image D being I in pixels where the yarn is totally opaque, and being 0 in pixels where the yarn is totally transparent; and storing means for storing the obtained color image X of the yarn itself and the yarn opacity image D as a yarn color image (X,D).

The closest prior art is Nippon et al that teaches different background images in figure 2; note that each of the images P1 and P2, assuming that the horizontal number of the pixels is W, the vertical number of the pixels is H, and pixel values of P1 and P2 are P1(x, y) and P2(x, y) respectively, the transparency calculation processing part AT obtains the maximum value PPMA

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for all pixels. The pixel value may be a RGB value, a brightness value or the like. For the transparency calculation, it is desirable to use a pixel value by which the difference between P1(x, y) and P2(x, y) becomes large, column 4, lines 26 and the value PT(x, y) of a point in the transparency image PT generated by the transparency calculation processing part AT is calculated., wherein 0 indicates transparent, 1 indicates opaque, and the transparency is represented by a real number between 0 and 1. The transparency calculation processing part AT obtains the transparency image PT by calculating the value for each pixel by using the equation. For example, the maximum pixel change PPMAX can be obtained by PPB1-PPB2, in which PPB1 is a pixel value of a part where the object is not included in the image P1, and PPB2 is a corresponding pixel value of the part where the object is not included in the image P2. Or, PPMAX may be the maximum value in .vertline.P1(x, y)-P2(x, y).vertline. for all pixels; column 5, lines 60-column 6, lines 1-60; see figures 1-2.)

### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NANCY BITAR whose telephone number is (571)270-1041. The examiner can normally be reached on Mon-Fri (7:30a.m. to 5:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jinge Wu can be reached on 571-272-7429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application

Information Retrieval (PAIR) system. Status information for published applications may be

obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would

like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Jingge Wu/

Supervisory Patent Examiner, Art Unit 2624

Nancy Bitar

12/16/2008